

ActiveEyes PRO User Manual V1R2 January 2012

www.volfoni.com

User Manual
ACTIVEYES[®] PRO
BY VOLFONI[®]

models **VBAE-01000** (active & passive)
& **VBAE-02000** (passive only)

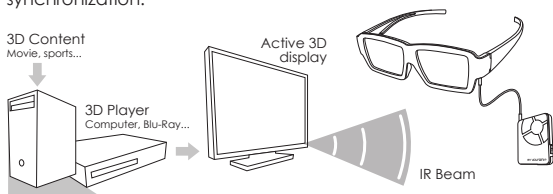
	Page
ENGLISH	1.
FRANÇAIS	9.
DEUTSCH	17.
ESPAÑOL	25.
REGULATORY STANDARDS	33

SUMMARY

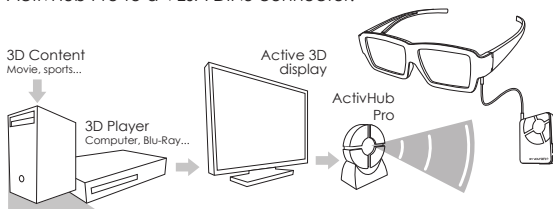
Content	Page
1. REQUIREMENTS	2.
2. PRODUCT OVERVIEW	3.
3. DESCRIPTION OF THE ACTIVEYES SYSTEM	3.
4. QUICK START	4.
5. CHARGING THE BATTERY	4.
6. ADVANCED USES	4-5.
7. TROUBLESHOOTING	5.
8. COMPATIBILITY	6.
9. SPECIFICATIONS	6.
10. SIGNIFICANCE OF LIGHT SIGNALS	7.
11. RECOMMENDATIONS	7.
12. PRECAUTION FOR USE - 3D VIEWING GUIDELINES	7.
13. WARRANTY	8.
14. MAINTENANCE OF YOUR GLASSES	8.
15. CONTACT	8.

1. REQUIREMENTS

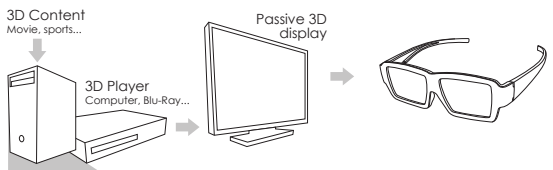
To use your ActivEyes Pro in active 3D mode you need a 3D device playing 3D content on a 3D Display using compatible IR synchronization.



If your 3D Display does not come with an IR emitter, you may want to acquire one from its manufacturer, or plug a Volfoni ActivHub Pro to a VESA DIN3 connector.



To use your ActivEyes Pro with hybrid lenses in passive 3D mode, you need a 3D device playing 3D content on a 3D display using compatible circular light polarization.



2. PRODUCT OVERVIEW

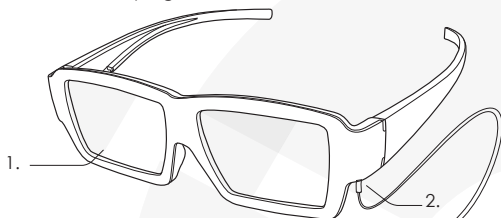
Your 3D Glasses System by Volfoni includes one pair of ActivEyes Pro 3D glasses and one ActivMe Pro electronic receiver. Your ActivEyes Pro glasses, when connected to the ActivMe Pro, are compatible with most 3D TV sets using IR signals to control 3D glasses. The ActivMe Pro receiver can be recharged and updated to new IR and RF 3D protocols via its USB port.

If your ActivEyes Pro 3D Glasses are fitted with Hybrid ClearLenses, they will decode 3D from passive displays too.

3. DESCRIPTION OF THE ACTIVEYES PRO SYSTEM

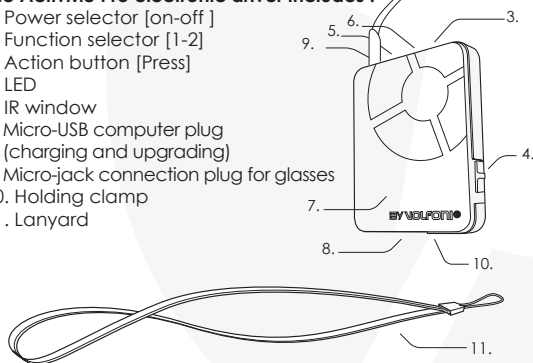
The ActivEyes Pro eyewear includes :

1. Liquid Crystal shutter lens
2. Connection plug



The ActivMe Pro electronic driver includes :

3. Power selector [on-off]
4. Function selector [1-2]
5. Action button [Press]
6. LED
7. IR window
8. Micro-USB computer plug (charging and upgrading)
9. Micro-jack connection plug for glasses
10. Holding clamp
11. Lanyard



4. QUICK START

To watch active displays using your ActivEyes System in universal infra-red 3D mode :

1. Using the connection cable, plug the ActivEyes Pro to the ActivMe Pro, and place the glasses on your head.
2. Check that the "function" selector on the ActivMe Pro is on "1".
3. Switch the power on. The glasses should blink once each eye to signal that the system is up and running.
4. Hold the ActivMe Pro driver facing your 3D display or IR source and press the "Action" button for two seconds. The LED will be solid green while the ActivMe Pro scans the IR signal. The last synchronized 3D display signal will be automatically recognized without pressing the « Action » button.
5. As soon as the IR signal is identified and interpreted, the glasses go into 3D mode. You can now attach the ActivMe Pro to the front of your clothing or attach to the lanyard, making sure that the IR window is not obscured.

To watch passive displays (for VPAE-01000 models only) :

Simply wear your ActivEyes Pro. There's no need to plug or power on the ActivMe Pro.

5. CHARGING THE BATTERY

To charge the ActivMe Pro, plug it in using the Micro-USB cable to any 5V USB power source (or computer). The LED should go red until the battery is fully charged, then the LED goes green, typically after 2.5 hours. The battery is estimated to last 30 hours before needing a recharge. Your ActivMe can operate while charging.

6. ADVANCED USES

Resetting the IR protocol

Your ActivMe Pro receiver records the brand and model of your 3DTV for faster 3D decoding. When switching to a different IR sync source, you need to reset the IR search. Press the "Action" button for 2 seconds, the LED will go solid green. Wait for the receiver to identify the IR signal and your glasses will automatically switch to the appropriate 3D mode.

A/B View selection

You can select various viewing modes by pressing on the "action" button. One short press will shift the glasses in 2D mode, showing the left view in both eyes. Another press will select the right view. This allows you to share a single screen between two players in "Dual View" mode on selected video games. A third press brings back the normal 3D mode.

Monitoring Active and Passive 3D at once (VPAE-01000 only)

You can watch passive 3D even with the ActivMe Pro plugged and active. This allows you to monitor 3D on active and passive displays at once without switching between two pairs of 3D glasses. Note that the light efficiency in this mode is lower than exclusively passive 3D.

Product Registration and Software Update

When registering your product online (www.volfoni.com), you will be entitled to download new software for your ActivMe Pro device, extending the compatibility to new IR protocols and standards.

Using your ActivEyes in RF 3D mode

RF communication offers interference-free synchronization for 3D Glasses. For users who want to use RF, ActivMe Pro can receive a signal from Volfoni ActivHub Pro. More information is available at www.volfoni.com

The ActivMe Pro receiver is not compatible with RF4CE, Zigbee and Bluetooth protocols, or proprietary RF implementations like Nvidia 3D Vision Pro.

7. TROUBLESHOOTING

If your glasses do not operate, the most common causes are :

PROBLEM	SOLUTION
The jack plug may not be all the way inserted in the ActiveMe Pro or in the glasses	Check the connection jack
The IR signal is not recognized	Check that your 3D system is emitting IR
The IR signal is obscured	Make sure ActivMe Pro is facing the IR emitter
The IR signal is scrambled by other sources like direct sunlight	Reduce external light
The ActivMe Pro battery is discharged	Plug the USB cable into a power source and try again
Your 3D display uses an IR protocol not compatible with Activeyes Pro	Check www.volfoni.com for update

8. COMPATIBILITY

Active 3D TV brands compatible with ActivEyes Pro in IR mode : Sony®, Panasonic®, LG®, Samsung®, Konka®, Hinsen®, Arcelik®.

Active 3D IR Emitter or protocols compatible with ActivEyes Pro : Nvidia®, NuVision®, Volfoni®.

Passive 3D TV sets compatible with VPAE-01000 : LG®, Hyundai®, JVC®, Sony®.

The list is indicative. Due to possible changes of IR protocol by manufacturers, Volfoni cannot warranty compatibility with third party products. Updated compatibility list and software is available at www.volfoni.com.

Using your ActivEyes Pro in RF 3D mode : ActivMe Pro is not compatible with 3DTV using Bluetooth glasses like the Samsung D Series, or with BitCaldron, RF4CE or ZigBee systems.

CEA 2038 3D Glasses IR Standard Protocol : Volfoni is an active member of the CEA standardization group and will integrate it as soon as it is publicly released.

9. SPECIFICATIONS

ActivEyes Pro (3D glasses)	VPAE-02000	VPAE-01000
<i>Lens technology</i>	ECB liquid crystal	Hybrid ECB
<i>Transmittance</i>	35%	33%
<i>Residual light</i>	17%	16%
<i>Contrast</i>	200:1	200:1
<i>Connector</i>	4-points 2.5" jack	4-points 2.5" jack
<i>Weight</i>	29grs	29grs

ActivMe Pro (electronic driver) VPAE-03000		
<i>Receiver</i>	Infra Red (IR) and Radio Frequency (RF)	
<i>Connector</i>	Micro USB and 4-points 2.5" jack	
<i>Power</i>	Battery type	Built-in rechargeable lithium-ion battery
	Operating time	30 hours
<i>Operating conditions</i>	Operating	0° to 35° C
	Storage	-20° to 45° C
<i>Relative humidity</i>	5% to 95%	
<i>Height</i>	50 mm	
<i>Width</i>	41 mm	
<i>Depth</i>	15 mm including clip	
<i>Weight</i>	21grs	
<i>Required USB power for recharge</i>	80mAh	

10. SIGNIFICANCE OF LIGHT SIGNALS

Green: Searching for 3D signal

Flashing Green: Valid 3D signal detected

Red: Battery recharge

Orange: Searching for 3D signal and recharging simultaneously

Flashing Red/Orange: Viewing 3D and recharging simultaneously

11. IMPORTANT SAFETY RECOMMENDATIONS

- The ActivEyes Pro 3D glasses are not suitable for wear when playing sports, driving vehicles, operating heavy machinery, or doing outdoor activities. It should not be used as sunglasses (no UV protection)
- If you are unsure about your vision, take a test to verify your ability to see stereoscopic 3D images.
- Do not sit too close to the screen when watching 3D images.
- Watching 3D may cause discomfort (such as eye strain, altered vision, fatigue, nausea, lightheadedness, dizziness, confusion, loss of awareness, convulsions, cramps and/or disorientation) for some people. Volfoni recommends that you take regular breaks when watching 3D content or playing 3D video games until the discomfort ends. If the discomfort persists, consult a doctor.
- Certain types of TV images or video games that contain flashing patterns of light may cause epilepsy symptoms for some viewers. If you or any member of your family has a history of epilepsy, Volfoni strongly recommends that you consult a physician before the use of this product.
- Be aware of young children, especially those under six years old. Because their vision is still under development, consult a doctor (such as pediatrician or eye doctor) before allowing young children to watch 3D.
- Not for children's use without proper adult supervision.
- If the product is broken, please keep broken pieces away from mouth and eyes. Dispose of pieces responsibly.
- Do not use 3D glasses in dangerous areas (such as balconies and stairwells).

12. PRECAUTION FOR USE - 3D VIEWING GUIDELINES

- The 3D glasses need to synchronize by infrared rays. For this operation to work well, be aware of the following instructions:
- The ActivMe Pro has to face the 3D Sync Transmitter.
- Remove all objects placed between the 3D glasses and the 3D Sync Transmitter.
- Other infrared communication devices or lighting equipment, residential heating equipment, etc..., may interfere with the synchronization.
- Avoid watching 3D under fluorescent lamp (50-60HZ) or wavelength lamp. Sometimes this can cause a small amount of screen flickering.

13. WARRANTY

Your ActivEyes Pro and ActivMe Pro are warrantied to the original purchaser for three to twelve months according to local legislation. Glasses and receiver should be returned in original box along with original proof of purchase. Lenses that are broken or scratched are not covered.

Volfoni does not warrant uninterrupted or error-free operation of the product.

14. CAUTION : MAINTENANCE OF YOUR GLASSES

- Protect the 3D system from direct sunlight, heat, or water. Extreme conditions may alter the product's abilities.
- Do not drop or modify the electrical or mechanical components of the 3D system.
- Do not apply force to the lenses of the 3D system.
- Do not bend the product.
- Use a clean soft cloth when cleaning the 3D glasses to avoid scratching, especially on the lens surface.
- Always transport your 3D glasses in a rigid case to avoid scratching the lenses and to prevent the frames from breaking.
- Do not submerge the ActivEyes Pro glasses or the ActivMe Pro IR receiver in water.

15. CONTACT

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For further information, visit Volfoni's website at www.volfoni.com.